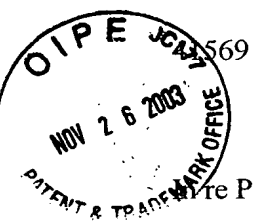


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Be the Patent of

Boehringer et al.

Patent No.: 6,628,004

Issued: September 30, 2003

For: DEVICE AND METHOD FOR  
GENERATING A PARTIALLY  
SYNTHESIZED SIGNAL WITH VERY  
GOOD DYNAMIC QUALITY FOR THE  
ACCELERATION OF A ROTOR IN AN  
ELECTRICAL DRIVE MECHANISM

PATENT

ATTN: Certificate of Correction

Certificate  
DEC 03 2003  
of Correction

**REQUEST FOR CERTIFICATE OF CORRECTION**  
**UNDER 35 U.S.C. § 254 AND UNDER 37 C.F.R. § 1.322**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicant respectfully requests that a Certificate of Correction be granted under 35 U.S.C. § 254 and 37 C.F.R. § 1.322 for the above-identified patent to correct minor errors made by the United States Patent and Trademark Office involving the name of the inventor and the name of the assignee.

The mistake involving the Applicant's name was the fault of the U.S. Patent and Trademark Office. As indicated in the originally-filed declaration, the given name of the Applicant is "Andreas" not "Christa". Ms. Christa Boehringer signed the declaration and

DEC 05 2003

assignment as the legal representative of her deceased husband and inventor, Mr. Andreas Boehringer. A copy of the declaration is attached.

The mistake involving the Assignee's name was the fault of the U.S. Patent and Trademark Office. As indicated by the originally filed assignment and Issue Fee transmittal document, the Assignee's name should be "Dr. Johannes Heidenhain GmbH", not "Johannes Heidenhain GmbH". Copies of the originally filed assignment and Issue Fee transmittal document are attached.

A Certificate of Correction is attached reflecting these corrections.

Since these corrections are due solely to mistakes incurred through the fault of the U.S. Patent and Trademark Office, no fees are due. Any other fees which may become due with respect to this communication, however, may be charged or any overpayment may be credited to Deposit Account No. 18-2220.

Respectfully submitted,



Mark S. Bieks  
Reg. No. 28,770

Roylance, Abrams, Berdo & Goodman, L.L.P.  
1300 19th Street, N.W.  
Washington, D.C. 20036  
(202) 659-9076

Dated: Nov. 24, 2003

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,628,004  
DATED : Sep. 30, 2003  
INVENTOR(S) : Boehringer et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The inventor's name that currently reads

Christa Boehringer

should read

**Andreas Boehringer; and**

The assignee's name that currently reads

Johannes Heidenhain, GmbH

should read

**Dr. Johannes Heidenhain, GmbH**

MAILING ADDRESS OF SENDER:

PATENT NO. 6,628,004

No. of additional copies



This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**DEC 05 2003**

# **PART B - FEE(S) TRANSMITTAL**

Complete and send this form, together with applicable fee(s), to: **Mail Box ISSUE FEE**  
**Commissioner for Patents**  
**Washington, D.C. 20231**  
**Fax (703)746-4000**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590 02/07/2003

Roylance Abrams Berdo & Goodman  
 1300 19th Street NW  
 Washington, DC 20036-1649

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/830,359

04/25/2001

Christa Boehringer

41569

4961

**TITLE OF INVENTION:** DEVICE AND METHOD FOR GENERATING A PARTIALLY SYNTHESIZED SIGNAL WITH VERY GOOD DYNAMIC QUALITY FOR THE ACCELERATION OF A ROTOR IN AN ELECTRICAL DRIVE MECHANISM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional

NO

\$1300

\$0

\$1300

05/07/2003

EXAMINER	ART UNIT	CLASS-SUBCLASS
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PONOMARENKO, NICHOLAS

2834

290-007000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☒ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☒ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

ROYLANCE, ABRAMS, BERDO

& GOODMAN, LLP

3 \_\_\_\_\_

## **3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)**

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

**DR. JOHANNES HEIDENHAIN GmbH**

**TRAUNREUT, GERMANY**

Please check the appropriate assignee category or categories (will not be printed on the patent) ☐ individual ☒ corporation or other private group entity ☐ government

## **4a. The following fee(s) are enclosed:**

☒ Issue Fee

☐ Publication Fee

☐ Advance Order - # of Copies \_\_\_\_\_

## **4b. Payment of Fee(s):**

☒ A check in the amount of the fee(s) is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☒ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 18-2220 (enclose an extra copy of this form) fee deficiency

Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

A S S I G N M E N T

WHEREAS, we:

(1) Andreas Boehringer, now deceased, a citizen of Germany, formerly residing at Hasenbergerstiege 55A, D-70197 Stuttgart, Germany, by his legal representative Christa Boehringer, a citizen of Austria residing at Hasenbergerstiege 55A, D-70197 Stuttgart, Germany; and

(2) Ralph Schmidt, a citizen of Germany residing at Laimgruber Strasse 29, D-82265 Sondermoning, Germany (hereinafter ASSIGNORS),

have made a certain invention entitled DEVICE AND METHOD FOR GENERATING A PARTIALLY SYNTHESIZED SIGNAL WITH VERY GOOD DYNAMIC QUALITY FOR THE ACCELERATION OF A ROTOR IN AN ELECTRICAL DRIVE MECHANISM for which we are making application for Letters Patent of the United States, which application has been executed concurrently herewith; and

WHEREAS, Dr. Johannes Heidenhain GmbH, a corporation duly organized under the laws of Germany, located and doing business at Dr.-Johannes-Heidenhain-Strasse 5, D-83301 Traunreut, Germany (hereinafter ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the aforementioned invention and the aforementioned application and any and all Letters Patent to be obtained on said invention and/or application;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that for good and valuable consideration paid to us by said ASSIGNEE the receipt and sufficiency of which is hereby acknowledged, we, the ASSIGNORS and, by these presents do hereby sell, assign, set over and transfer unto the said ASSIGNEE, its successors, legal representatives or assigns, the entire right, title and interest in and to the aforesaid invention in and for the United States and all countries foreign thereto; and in, to and under the aforesaid United States application and any corresponding foreign applications and any divisional, continuing, substitute or reissue applications or supplementary disclosures which may be filed on said invention in any country; and our right to file said foreign applications and claim priority under the provisions of the International Convention; and any Letters Patent of the United States or any foreign country issued or granted on said invention and/or said applications;

AND ASSIGNORS HEREBY authorize and request the Patent Office or other issuing authority to issue any and all patents on said invention and/or said application to said ASSIGNEE as sole assignee; and further hereby authorize said ASSIGNEE to file and prosecute any of said foreign applications in its own name;

AND ASSIGNORS HEREBY covenant that they have the full right to convey the entire right, title and interest herein assigned and have not executed and will not execute any assignment or other instrument in conflict herewith;

AND ASSIGNORS HEREBY further covenant and agree to communicate to said ASSIGNEE, or its legal representatives, successors or assigns, any facts relating to said invention, including evidence for interference purposes or other proceedings, whenever requested, and to testify in any interference or in any other legal proceeding, when requested, and to execute and deliver on request all lawful papers required to make any of the foregoing provisions effective; and to perform the aforesaid communicating, executing and delivering, without any payment except expenses and to perform the aforesaid testifying for reasonable compensation; and generally to do everything possible to aid the said ASSIGNEE, its successors, legal representatives or assigns to obtain and enforce proper patent protection on and for said invention in all countries, and likewise make these provisions binding upon our heirs, legal representatives and/or administrators.

IN WITNESS WHEREOF, we have hereunder set our hand and seal this 19. day of April, 2001.

Gabriel Eising  
Witness

Christa Boehringer  
Christa Boehringer

J. T. Ely  
Witness

Ralph Schmidt 04/17/2001  
Ralph Schmidt



# DECLARATION AND POWER OF ATTORNEY

We declare:

(1) That I, Christa Boehringer, am a citizen of Austria, residing at Hasenbergstiege 55A, D-70197 Stuttgart, Germany, that I am executing this declaration on behalf of and as legal representative of Andreas Boehringer, now deceased, a citizen of Germany, formerly residing at Hasenbergstiege 55A, D-70197 Stuttgart, Germany;

(2) That I, Ralph Schmidt, am a citizen of Germany, residing at Laimgruber Strasse 29, D-83365 Sondermoning, Germany;

That we have read the foregoing specification and claims, and upon information and belief, we verily believe that Andreas Boehringer and Ralph Schmidt are the original, first and joint inventors of the invention entitled DEVICE AND METHOD FOR GENERATING A PARTIALLY SYNTHESIZED SIGNAL WITH VERY GOOD DYNAMIC QUALITY FOR THE ACCELERATION OF A ROTOR IN AN ELECTRICAL DRIVE MECHANISM described and claimed therein; that we have reviewed and understand the content of the attached specification, including the claims; that we acknowledge our duty to disclose information of which we are aware which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a) and that no application for patent or inventor's certificate on this invention has been filed by Andreas Boehringer or Ralph Schmidt or their representatives or assigns in any country foreign to the United States except as follows for which priority is claimed:

German Application No. 198 51 003.9 filed November 5, 1998;  
PCT Application No. PCT/EP99/08376 filed November 3, 1999.

And we hereby appoint:


David S. Abrams	Reg. No. 22,576	Joseph J. Buczynski	Reg. No. 35,084
Alfred N. Goodman	Reg. No. 26,458	Jeffrey J. Howell	Reg. No. 46,402
Mark S. Bicks	Reg. No. 28,770	Tara L. Hoffman	Reg. No. 46,510
John E. Holmes	Reg. No. 29,392	Marcus R. Mickney	Reg. No. 44,941
Lance G. Johnson	Reg. No. 32,531	Christian C. Michel	Reg. No. 46,300
Garrett V. Davis	Reg. No. 32,023	Aisha Ahmad	Reg. No. 47,381
Stacey J. Longanecker	Reg. No. 33,952		

of the firm of ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P. as our attorneys or agents with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Correspondence and telephone calls are to be directed to:

Roylance, Abrams, Berdo & Goodman, L.L.P.  
1300 19th Street, N.W.  
Washington, D.C. 20036-1649  
(202) 659-9076

The undersigned further declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

  
Christa Boehringer

Address: Hasenbergsteige 55A  
D-70197 Stuttgart  
Germany

Date: 19. April 2001

  
Ralph Schmidt

Address: Laimgruber Strasse 29  
D-83365 Sondermoning  
Germany

Date: 04 / 17 / 2001